Express Mail Label No: ED 114328726 US Attorney Docket No.: 100937-1P US

PATENT COOPERATION TREA

TIKU

17 JUN 2005

From the	
INTERNATIONAL PRELIMINARY	EXAMINING AUTHORITY

20 JAN 2005 To: **ASTRAZENECA** Intellectual Property, Patents CODE NOTIFICATION OF TRANSMITTAL OF S-151 85 Södertälje THE INTERNATIONAL PRELIMINARY SUEDE **EXAMINATION REPORT** (PCT Rule 71.1) 19 JAK 2005 GIF1: Date of mailing DATA (day/month/year) 17.01.2005 ENTERES नसर्AU Applicant's or agent's file reference IMPORTANT NOTIFICATION 100937-1 WO Priority date (day/month/year) International filing date (day/month/year) International application No. 24.12.2002 22.12.2003 PCT/GB 03/05636 Applicant

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

ASTRAZENECA AB et al.

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 • 0 Tx: 523656 epmu d Fax: +49 89 2399 • 4465 **Authorized Officer**

Ullrich, J

Tel. +49 89 2399-8048



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT DATA TENTGASS FINAL

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 100937-1 WO FOR FURTHER AG				CTION	See Notification Preliminary Ex	n of Transmittal of Interna amination Report (Form P	tional CT/PEA/416)
International application No. International filing date PCT/GB 03/05636 22.12.2003				(day/mont	th/year)	Priority date (day/month 24.12.2002	Vyear)
Internation C07D41		nt Classification (IPC) or bo	th national classification	and IPC			
Applicant ASTRA		CA AB et al.					
1. Thi Aut	s interr	national preliminary exam and is transmitted to the	nination report has bee applicant according to	en prepai Article 3	red by this Inte 6.	rnational Preliminary E	xamining
2. Thi	s REP	ORT consists of a total o	f 4 sheets, including to	his cover	sheet.		
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
The	ese anr	nexes consist of a total o	f sheets.		,		
3. Thi	s repor	t contains indications rel	ating to the following it	tems:			, <i>'</i>
1	Ø	Basis of the opinion					
11		Priority					
111	\boxtimes	Non-establishment of o	pinion with regard to n	ovelty, ir	nventive step a	nd industrial applicabili	ty
IV		Lack of unity of invention	on				
V							
VI		Certain documents cite	d				
VII		Certain defects in the in					
VIII		Certain observations of	n the international appl	lication			
Date of submission of the demand			Date of	completion of thi	is report		
22.06.2004			17.01.	2005			
Name and preliminar	y exami	address of the international	al .	Authoriz	zed Officer		Sentinches Personal
European Patent Office D-80298 Munich			Ousse	et. J-B			
Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			ì	one No. +49 89 2	399-8271		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/05636

I.	Basis	of the	e report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages							
	1-14	42	as originally filed					
	Cla	ims, Numbers						
	1-1		as originally filed					
2.	With lang	n regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.					
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	unslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	ication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	nslation furnished for the purposes of international preliminary examination (under 3).					
3.	Witl inte	n regard to any nucle rnational preliminary	otide and/or amino acld sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.					
		filed together with th	e international application in computer readable form.					
		furnished subsequer	ntly to this Authority in written form.					
		furnished subsequer	ntly to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4.	. The amendments have resulted in the cancellation of:							
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5. This report has been established as if (some of) the amendments had not been made, since to been considered to go beyond the disclosure as filed (Rule 70.2(c)).								
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to report.)							
6.	Additional observations, if necessary:							

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/05636

III.	Noi	n-establishment of opinion w	ith reg	gard to nove	elty, inventive step and industrial applicability				
1.	The obv	questions whether the claimed ious), or to be industrially appli	d inver cable l	ntion appears have not bee	rs to be novel, to involve an inventive step (to be non- en examined in respect of:				
		the entire international applica	ition,						
		claims Nos. 15,16							
		because:							
	☒	the said international application does not require an internation	on, or nal pre	the said clai Iiminary exa	ims Nos. 15,16 relate to the following subject matter whic amination (specify);	:h			
		see separate sheet							
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so uncleathat no meaningful opinion could be formed (specify):								
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.								
		no international search report	has be	en establish	hed for the said claims Nos.				
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:								
		the written form has not been	furnist	ned or does	not comply with the Standard.				
		the computer readable form ha	hed or does not comply with the Standard.						
V.	Rea	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Stat	ement							
	Novelty (N)		Yes: No:	Claims Claims	1-14,17				
	Inve	entive step (IS)	Yes: No:	Claims Claims	. 1-14,17				
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-14,17				
2.	Cita	tions and explanations							

see separate sheet

INTERNATIONAL PRELIMINARY

International application No. PCT/GB 03/05636

EXAMINATION REPORT - SEPARATE SHEET

SECTION III

Claims 15 and 16 relate to the treatment of human and/or animal bodies. According to Rule 67(1)(iv) an examination is not required for such claims.

SECTION V

Relevant prior art is represented by: 2).

D1: WO 02/00649 A (ASTRAZENECA) 3 January 2002 (2002-01-03)

D2: WO 03/000188 A (ARIAD PHARMA.) 3 January 2003 (2003-01-03)

- The claimed matter is novel vis-à-vis D1, since all the claimed compounds contain an entity "phosphonooxy".
- D1 discloses also compounds used as anti-cancer and these compounds differ from the ones currently claimed by the absence of a phosphonooxy entity on the substituent attached at the position 7.

Hence, The problem underlying the current application appears to be the provision of further quinazoline derivatives having anti-cancer properties.

D1 teaches that the position 7 of the quinazolinyl moiety 8 (substituent R₃) can be substituted by a large variety of groups without impairing the claimed pharmaceutical properties. Thus, the skilled person, seeking to make available alternative compounds, would have tried to further modify this part of the molecule and to expect to retain, to at least some extent, the same anti-cancer property.

Therefore, an inventive step cannot be acknowledged.

There is no objection with regard to industrial applicability. 5).